

Despite the cold, sophomores wait outside Kresge Auditorium for the Class of 2014 Ring Premiere last Friday evening. Some stood in line for hours in the hopes of getting a free gift.

REPORTER'S NOTEBOOK

2014's Brass Rat design revealed
Clutching candle and compass, beaver sits on Harvard bridge

By Anne Cai
NEWS EDITOR

By 4 p.m. Friday afternoon, the promise of a surprise gift for the first 50 people in line for Ring Premiere had lured a crowd of sophomores to the doors of Kresge. Later that evening, we discovered that the first ones there got their purple tickets and went on their merry way, instead of having to jostle each other outside the door for four hours.

Half an hour before the doors opened, I was in line in the windy cold with several hundred other 2014s waiting to

see our unique brass rat design. I was amused by the number of people trying to find their friends by running out of the line onto Kresge Oval and waving — when everyone did the same, it became hilariously counterproductive.

When we were finally let in, we shoved our way through the doors to claim our favorite seats in the auditorium. For my friends and I, that meant back aisle seats near the doors, anticipating a stampede for gift bags afterwards. From our vantage point in the back, we saw at

Brass Rat, Page 4

Technology exposition or career fair?
Techfair 2012 attracted companies and student projects last week

By Isabella Wei
STAFF REPORTER

Photography startup Lytro came to Techfair this year to show off its new 3D camera, whose pictures can be re-focused after the shot. They invited students for a hands-on demo of the unreleased product — what they didn't expect was the deluge of resumes.

"It was great to have students take cameras out and have them excited about the technology," Lytro's Director of Photography Eric Cheng said. But, he added, "it ended up being half-recruiting because there were so many people handing [us] resumes."

Techfair began seven years ago as a student-run trade show, but it is in some ways a job fair too. Its website has place to submit resumes and many students treat the event as a chance to mingle with potential employers.

This year, organizers say they tried to focus on the technology. The even-

tual goal, according to Managing Director Susie R. Fu '12, is to grow into the Consumer Electronics Show of the east coast. "[As MIT] we are the center of technology on the east coast and we should have events where we show off cool things," she said.

On Monday, Feb. 6 in Rockwell Cage, 60 companies and 31 different student projects were on display. Bose had a wand that could project a pinpoint beam of sound. Nest had its learning thermostat, which programs itself to adjust the temperature based on the user habits. Among the student projects were DDR Tetris, the Hat Coil, the Rideable Hexapod, electric instruments, and the beginnings of an Iron Man suit.

Jose Cong, a Nest representative, said the fair was great place to meet students they may want to keep in touch with, but for them it was not a recruiting event. Though they did receive several resumes, they mostly had conversations with students who expressed in-

terest in the technology.

A quick survey of company representatives indicated positive responses to Techfair — everyone asked said that they would love to come back. Companies seemed to like the idea of combining a tech expo with a career fair, explaining that it gave them a good sense of MIT. Pete Hopkins, the representative for Twitter, said, "When I'm talking to students while seeing a guy go by with a Tesla coil on his head, I know exactly where I am — MIT."

Student reactions to Techfair varied. Maksim Kolysh '14 was dazzled by the technology. "Techfair is the future of innovation," he gushed. "Come to Techfair and the products will blow your mind." Others, sold on the job fair aspect of the event, were frustrated that there were not more employment opportunities.

"If you're not Course 6 or Course 2 don't bother coming," Jeffrey H. Lin '13

Techfair, Page 5

MITx starts with 6.002x
Anybody can enroll, course offered for free

By Ethan A. Solomon
EXECUTIVE EDITOR

6.002 (Circuits and Electronics) will be the first course offered via MITx, an online educational initiative announced late last year that has seen widespread praise but also faces questions from some faculty members. MIT has billed MITx as a way to enhance the on-campus education for MIT students and simultaneously offer MIT courses, largely free, to the rest of the world.

Registration for 6.002x — which is essentially the same course material as MIT's 6.002 but delivered online — opened yesterday at <http://mitx>.

mit.edu. The course will offer a certificate of completion for those who pass it, and though MITx will charge for certification in the future, 6.002x's will be free since the course is still a prototype.

6.002x will consist of 5-10 minute video lectures, demonstrations, homework assignments, simulated laboratories, and exams — all graded automatically — according to a press release from the MIT News Office. It is being taught by CSAIL Director Anant Agarwal, Christopher J. Terman PhD '83, Gerald J. Sussman '68, and Piotr Mitros '04.

6.002x, Page 6



A date with Camille L.M. Everhart '13 is auctioned off during the SAE Charity Date Auction, held last Saturday night in Walker Memorial. The event raised \$6,600 for Camp Kesem, a summer camp for children whose parents have cancer. The dates included venues such as the Union Oyster House and activities like F1 racing.

IN SHORT

The deadline to register in the Super Tuesday Mass. Primary is Wednesday, Feb. 14. Don't forget to vote!

Wednesday is the last day to waive individual health coverage for the Spring semester, in room E23-308.

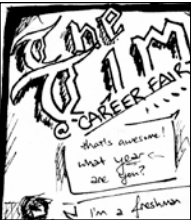
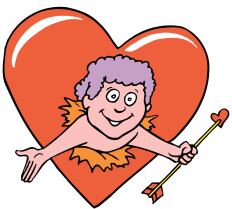
Active Minds and LSC are hosting a screening of *America the Beautiful 2: The Thin Commandments* on Friday, Feb. 24 in 10-250. There will be free food and a panel discussion with the filmmaker.

Seeing red? Donate blood in La Sala from 8 a.m. – 1 p.m. today and 1 – 6 p.m. the rest of the week.

Send news information and tips to news@tech.mit.edu.

WHAT SHOULD YOU DO THIS VALENTINE'S?

Chacha weighs in on the holiday.
CAMPUS LIFE, p. 11



DO YOU LIKE FROSH?

It's OK. Neither do recruiters.
FUN, p. 5

BEING HEALTHY: STARTING FRESH

How to fit fitness into your life.
CAMPUS LIFE, p. 11

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House Republicans yield on a payroll tax cut

By Jennifer Steinhauer
THE NEW YORK TIMES

THE NEW YORK TIMES

But the move underscored the desire of many Republicans — eager to blunt Democratic accusations that they do not support tax cuts for middle-class Americans — to put the tax cut fight behind them in an election year.

As the House-Senate committee charged with coming up with a plan to extend the benefits continued to negotiate, Republican leaders said they would introduce legislation this week to extend the payroll tax cut by itself, allowing the conference members to negotiate the unemployment proposal and the Medicare measure, known as the "doc fix."

Accusing Senate Democrats and President Barack Obama of stalling negotiations, House Speaker John A. Boehner of Ohio said in a statement with Rep. Eric Cantor of Virginia, the majority leader, and Rep. Kevin McCarthy of California, the House whip, that "House Republicans will introduce a backup plan that would simply extend the payroll tax holiday for the remainder of the year while the conference negotiations con-

By separating the payroll tax issue from unemployment benefits, Republicans have somewhat boxed in Democrats, forcing them to decide whether to accept a stand-alone tax cut that touches nearly every working American — and is generally more popular than the additional unemployment insurance — or hold out for a package that covers all three programs, at a cost of about \$160 billion. Democrats, also eager to extend unemployment pay, were reluctant to embrace the idea of resolving the payroll tax fight separately.

Rep. Chris Van Hollen of Maryland, one of the Democratic negotiators, said Monday that the payroll tax extension should “travel together” with an extension of unemployment benefits and Medicare payment legislation.

The decision, announced by House Republican leaders, was a surprise after weeks of Republicans' insistence that they would not accept extensions to any of the three benefits without offsetting the costs.

Apple, in shift, pushes an audit of sites in China

**By Charles Duhigg
and Nick Wingfield**
THE NEW YORK TIMES

THE NEW YORK TIMES

changes throughout the electronics industry, since a lot of companies use the same suppliers. They also said it seemed calculated to forestall the kind of public relations problems over labor issues that have afflicted companies like Nike, Gap and Disney.

"This is a really big deal," said Sasha Lezhnev at the Enough Project, a group focused on corporate accountability. "The whole industry has to follow whatever Apple does."

auditor Apple chose, the Fair Labor Association, which is based in Washington, was not sufficiently independent. And some critics questioned whether the inspections — Apple said the manufacturers had agreed to do them voluntarily — would curtail problems or merely help Apple deflect criticism.

Apple, in a statement, said that the Fair Labor Association was an independent organization that had been given “unrestricted access” to the company’s suppliers. The first inspections, Apple said, were conducted Monday at a factory in Shenzhen, China, known as Foxconn City, one of the largest plants within China.

Human rights advocates have long said that Foxconn City's 230,000 employees are subjected to long hours, coerced overtime and harsh working conditions, all of which Foxconn disputes.

For years, Apple has resisted calls for independent scrutiny of the suppliers that make its electronics. But for the first time it has begun divulging information that it once considered secret, following criticism that included coordinated protests last week at Apple stores and investigative reports about punishing conditions inside some factories.

Corporate analysts say Apple's shifts could incite widespread

—*Ian Austen, The New York Times*

The gifts from the company, Chesapeake Energy, have drawn criticism from some environmentalists. “Sleeping with the enemy” was a comment much forwarded on Twitter posts about the undisclosed arrangement.

“Runners shouldn’t smoke, priests shouldn’t touch the kids, and environmentalists should never take money from polluters,” John Passacantando, a former director of Greenpeace who is now an environmental consultant, said in an interview. Yet the donations to the Sierra Club, reported by *Time Magazine’s* Ecocentric blog and a blog called Corporate Crime Reporter, have plenty of precedents. Between 2004 and 2006, the National Audubon Society accepted \$2.1 million from the chemical giant Monsanto to find a strategy for ensuring the safety of waterfowl near industrial farms using pesticides, for example.

—Felicity Barringer, *The New York Times*

Warmth and lack of snow will continue this week
























By Allison A. Wing
STAFF METEOROLOGIST

With the exception of a few cold spurts (like this past Sunday), this winter has been marked by a general trend of above average temperatures. This weather will continue this week, with high temperatures in the mid to upper 40s (8°C); 10°F (-12°C) above normal. It has also been a dry winter, with only 2.74" of precipitation occurring since Jan. 1, compared to a climatological value of 4.67". The first two weeks of February have also been unusually dry, with only

0.07" of precipitation compared to a usual month-to-date value of 1.31". Not only has this winter featured a lack of precipitation — Boston has had a lack of snowfall in particular. Since Dec. 1, Boston has recorded 6.8" of snow, far less than the climatological value of 26.5" (and miniscule, compared with last season's 71.2"). Unfortunately for those hoping for snow, it doesn't appear to be in the cards this week. There is a system coming through on Thursday and Friday that should bring measurable precipitation, but it looks to be only in the form of rain.

Today: Mostly cloudy. High 46°F (8°C). West winds at 5–10 mph.
Tonight: Mostly cloudy with a chance of rain/snow showers. Low 30°F (-1°C). West winds at 3–8 mph.
Tomorrow: Mostly cloudy. High of 48°F (9°C). Low 34°F (1°C). Calm, then south winds at 3–8 mph
Thursday: Cloudy with rain showers. High 48°F (9°C). Low 38°F (3°C). North winds shifting to south winds at 3–8 mph.
Friday: Cloudy with rain showers. High 49°F (9°C). Low 30°F (-1°C). East winds at 5–10 mph shifting to northwest winds at 10–15 mph.



Weather Systems	Weather Fronts	Precipitation Symbols			Other Symbols				
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Snow	Rain								
									
									
L Low Pressure	 Warm Front	Light 	 Thunderstorm						
 Hurricane	 Cold Front	Moderate 	 Haze						
	 Stationary Front	Heavy 	Compiled by MIT Meteorology Staff and <i>The Tech</i>						

Athens shaken by riots after vote for austerity

By **Niki Kitsantonis**
and **Rachel Donadio**
THE NEW YORK TIMES

ATHENS, Greece — The acrid stench of tear gas permeated central Athens on Monday and the husks of burnt-out buildings still smoldered after a night of rioting following the Greek Parliament’s vote to approve austerity measures in exchange for more rescue financing.

In the aftermath, municipal workers were sweeping up broken glass while Greek political leaders were surveying the political damage following the expulsion of dozens of lawmakers from their parties, after the legislators had broken ranks on the austerity vote ahead of early national elections. On Monday the gov-

ernment spokesman, Pantelis Kapsis, said the elections would be held in April.

About 150 stores were vandalized and looted, and about 45 buildings — including neoclassical structures, two historic movie theaters, banks and cafes — were seriously burnt, many beyond repair, according to the Athens Chamber of Commerce and Industry. The chamber estimated the losses in the “tens of millions” of dollars. The public order minister, Christos Papoutsis, called the damage part of “an organized plan of arson and looting.”

More than 80,000 people came out to protest peacefully on Sunday, before scores of violent hooded protesters hijacked the demonstration. A spokesman for the Athens police

said Monday that 74 people had been arrested and another 92 briefly detained, after scores of violent protesters scuffled with police and hurled Molotov cocktails into buildings.

The spokesman said that 104 police officers had been injured in the riots, but gave no injury figures for demonstrators, though the ambulance service said there had been dozens.

As he stood in a smoldering shopping arcade, Dimitris Arvinatis, 56, a doorman, described how rioters tore open the steel shutters of shops and threw in a series of Molotov cocktails. “It felt like war,” he said. “I could not believe I was in Athens. I have never seen this in my almost 60 years of life, and I have been working here all my life.”

American active on Internet recounts beating in China

By **Andrew Jacobs**
THE NEW YORK TIMES

The Chinese Communist Party has long felt threatened by overseas websites and social media outlets, but the recent detention of a California physicist who says he was beaten by Chinese security agents seeking the password for his Twitter account suggests how far the government will go in its battle against a freewheeling Internet.

The man, Ge Xun, 53, a naturalized U.S. citizen who moved to the United States from China in 1986,

said he was abducted from a street in Beijing this month and was roughly questioned by public security officers at a secret location. During 21 hours of interrogation, Ge said, the agents peppered him with questions about his blogging activity, his membership in an organization that promotes dialogue between Tibetans and Chinese and his role in maintaining a website that supports a blind lawyer living under house arrest in China’s rural northeast.

But Ge’s greatest sin, it appears, was his zealous embrace of Twitter, which has long been blocked in Chi-

na along with Facebook, YouTube, and other websites that the government deems a threat to its hold on power. In the end, Ge and his captors came up with a compromise: He did not reveal his password but logged on to Twitter and allowed them to peek inside his account. “The truth is I have nothing to hide,” he said.

Although Ge was released and promptly deported on Feb. 2, the incident highlights the risks that foreign passport holders of Chinese origin face when ensnared by China’s nebulous and omnipotent public security apparatus.

UConn’s new athletic director faces immediate challenges

Warde J. Manuel, who raised expectations on the playing field and in the classroom in six years as the athletic director at Buffalo, was introduced Monday as Connecticut’s new AD at a time when the Huskies’ Men’s Basketball team is dealing with the fallout from academic issues and the health concerns of its Hall of Fame coach, Jim Calhoun.

“There are some tough issues to deal with, things you have to think about and work through,” Manuel, 43, said in telephone interview. “But it’s a challenge and a great place, and I’m really glad I was selected.”

The Huskies are prohibited from competing in the 2013 NCAA tournament because of below-standard academic results. Colleges must have a two-year average score of 930 or a four-year average of 900 on the Academic Progress Rate, which measures athletes’ academic performance. The Huskies, who scored 826 for the 2009-10 academic year, may not make the cut for those two- and four-year averages and could face more penalties.

—Mark Viera, *The New York Times*

Britain releases militant preacher

LONDON — Abu Qatada, a militant Islamic preacher held without charge for more than six years as a threat to Britain’s national security, was released from prison Monday night after an immigration judge signed off on strict bail conditions earlier in the day.

The conditions, the tightest permitted under British law, include a 22-hour-a-day curfew for the Jordanian-born preacher, whose real name is Omar Mahmoud Mohammed Othman. They bar him from traveling beyond his home neighborhood and using cellphones, the Internet and public transportation.

They also prohibit him from attending mosques or accompanying any of his five children from his London home to school, and they allow him to meet visitors only if they have been vetted by the police.

Television channels across Britain showed Othman hiding his face in the back of a van that was leaving the Long Lartin maximum-security prison in Worcestershire around 9:15 p.m. Monday.

The developments were the latest in a long-running case that has inflamed politicians and public opinion in Britain and turned Othman, 51, into a symbol of Britain’s difficulties in dealing with a pervasive network of Islamic militants with cells in many of the country’s largest cities.


Officials have said that the cost to British taxpayers in the case, including legal aid for Othman’s lawsuits and welfare support for his family, have exceeded 500,000 pounds, or about \$790,000.

—John F. Burns, *The New York Times*

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UA

Techfair popular

60 companies attend the event;
over 30 student projects displayed

Techfair, from Page 1

said. “MIT’s commitment to finding jobs for students doesn’t support those who are not Course 6 or 2.”

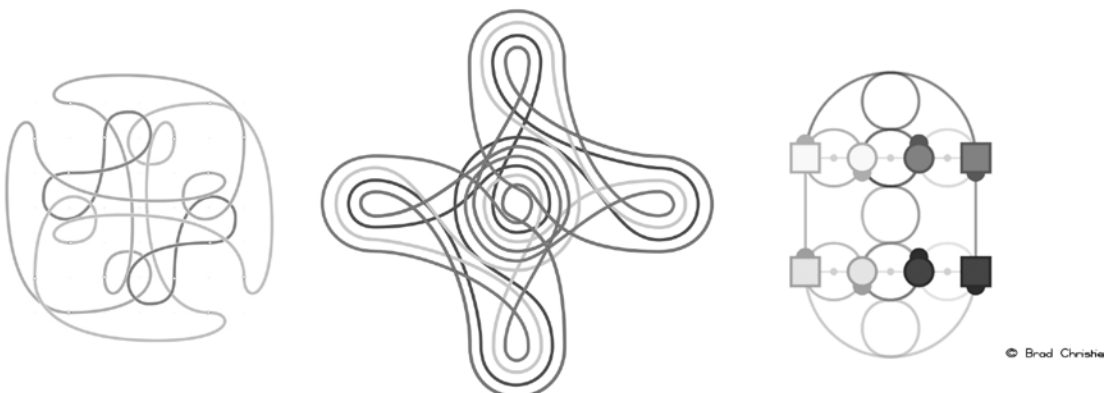
There is a challenge in ‘balancing [the group’s] vision and the needs of [the group’s] sponsors.’

Fu admits there is a challenge in “balancing [the group’s] vision

and the needs of [the group’s] sponsors, who want to connect to students.” Unlike the annual fall Career Fair, Techfair does not organize interviews or company information sessions. Companies who want more interaction with students are invited to run tech-focused side events. For instance, Facebook sponsored a Hack-a-thon and Microsoft sponsored an afterparty with Kinect games.

For students hoping to work for Lytro, there may be hope yet. In light of all the interest, Techfair convinced Cheng that he should take advantage of MIT students’ talents. Now, the company is considering internships.


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SMBC, from Page 10

Solution to Crossword

from page 10

O	F	F	E	R	E	D	C	A	S	T	O	F	F
R	I	O	L	O	B	O	O	C	E	A	N	I	A
E	R	O	S	I	O	N	S	T	A	P	L	E	R
G	E	L	L	O	O	S	E	S	T	E	L	M	
A	B	E	T	K	R	O	C	S	H	A	D	E	
N	O	R	A	D	S	W	A	P	O	V	E	R	
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S	T	R	A	Y	D	O	G	R	E	T	A	R	D
H	E	A	L	A	L	A	S	L	E	V	E	E	
I	N	T	E	L	F	L	A	P	R	O	C	K	
P	S	I	A	P	P	A	L	L	S	C	O	L	
P	I	N	E	T	A	R	M	A	N	C	A	V	E
E	L	G	R	E	C	O	O	N	O	R	D	E	R
D	E	S	E	R	T	S	N	E	W	Y	O	R	K

Solution to Sudoku

from page 10

3	5	2	9	7	4	8	1	6
1	7	9	2	6	8	4	3	5
4	6	8	3	1	5	7	2	9
2	3	7	8	4	9	5	6	1
6	4	5	1	2	3	9	7	8
8	9	1	6	5	7	3	4	2
7	2	4	5	9	6	1	8	3
5	8	6	7	3	1	2	9	4
9	1	3	4	8	2	6	5	7

Solution to Techdoku

from page 10


4	1	2	5	6	3
5	2	3	6	1	4
6	3	4	1	2	5
3	6	1	4	5	2
1	4	5	2	3	6
2	5	6	3	4	1

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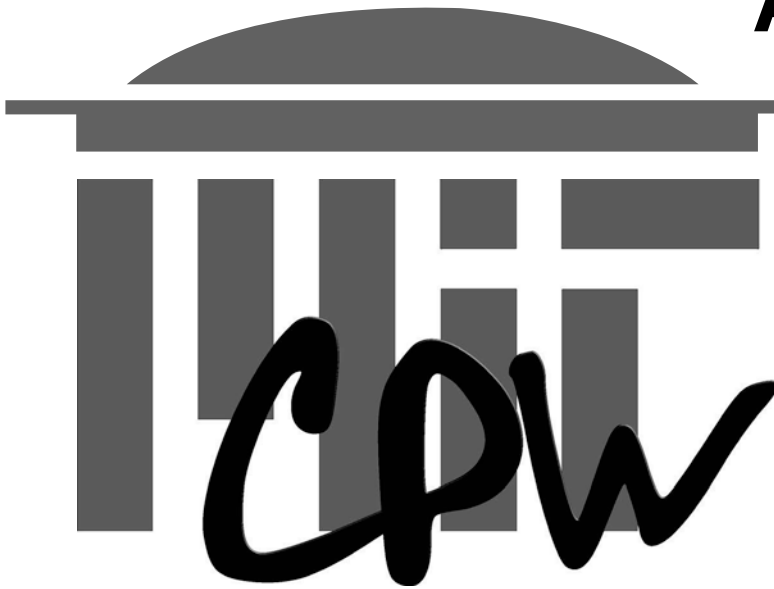
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CHRISTOPHER A. MAYNOR—THE TECH
The final project of the Martin Luther King, Jr. Design Seminar (17.922) was on display in Lobby 10 on Friday. The exhibit, which highlights issues including racial discrimination and economic disparity, will be up through Thursday.

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Google cleared for Motorola Mobility acquisition

By James Kanter
and David Streitfeld
THE NEW YORK TIMES

U.S. and European antitrust regulators on Monday approved Google's acquisition of the cell-phone maker Motorola Mobility without formal conditions, paving the way for the search giant to compete directly with its new archrival, Apple.

The deal, worth \$12.5 billion, still needs a few more regional approvals but has cleared the biggest hurdles. It would bring Google 19,000 new employees, the lower margins of a manufacturing enterprise, and the challenge of extending its very successful cellphone software business.

Google's Android operating system is in more than four out of 10 new smartphones, but the dominant single company in the industry remains Apple and its iPhone. Google is likely to use Motorola to show other Android makers how it thinks phones should be built — by, for instance, more tightly integrating such Google-centric features as Google Wallet.

Approval of the deal had been widely expected. The only discordant note: Europe warned that Google should play fair in markets for smartphones and tablet computers. Google shares rose \$6.29 Monday to close at \$612.20.

The Justice Department separately announced that it was closing three investigations at the same time: Google's purchase of Motorola; the purchase by Apple, Microsoft, and Research in Motion of certain patents from the bankrupt Nortel Networks; and Apple's purchase of certain Novell patents.

The purchases are "unlikely to substantially lessen competition,"

the Justice Department said in a statement.

Barclays Capital, in a report on Google released on Monday, said that Motorola's mobile devices business was probably losing market share, but that its extensive patent portfolio would allow Google

to better protect Android. It also will give Google access to the living room through Motorola's set-top box business. Google is already working on a home entertainment device.

The deal comes at a time of heightened scrutiny by regula-

tors over ownership of intellectual property governing computers and mobile communications.

Joaquin Almunia, the European Union competition commissioner, indicated in a statement that he would be watching the sector. The decision "does not mean that the

merger clearance blesses all actions by Motorola in the past or all future action by Google," the statement said. He added that any action on "the question whether Motorola's or Google's conduct is compliant with EU antitrust law" would be taken separately.

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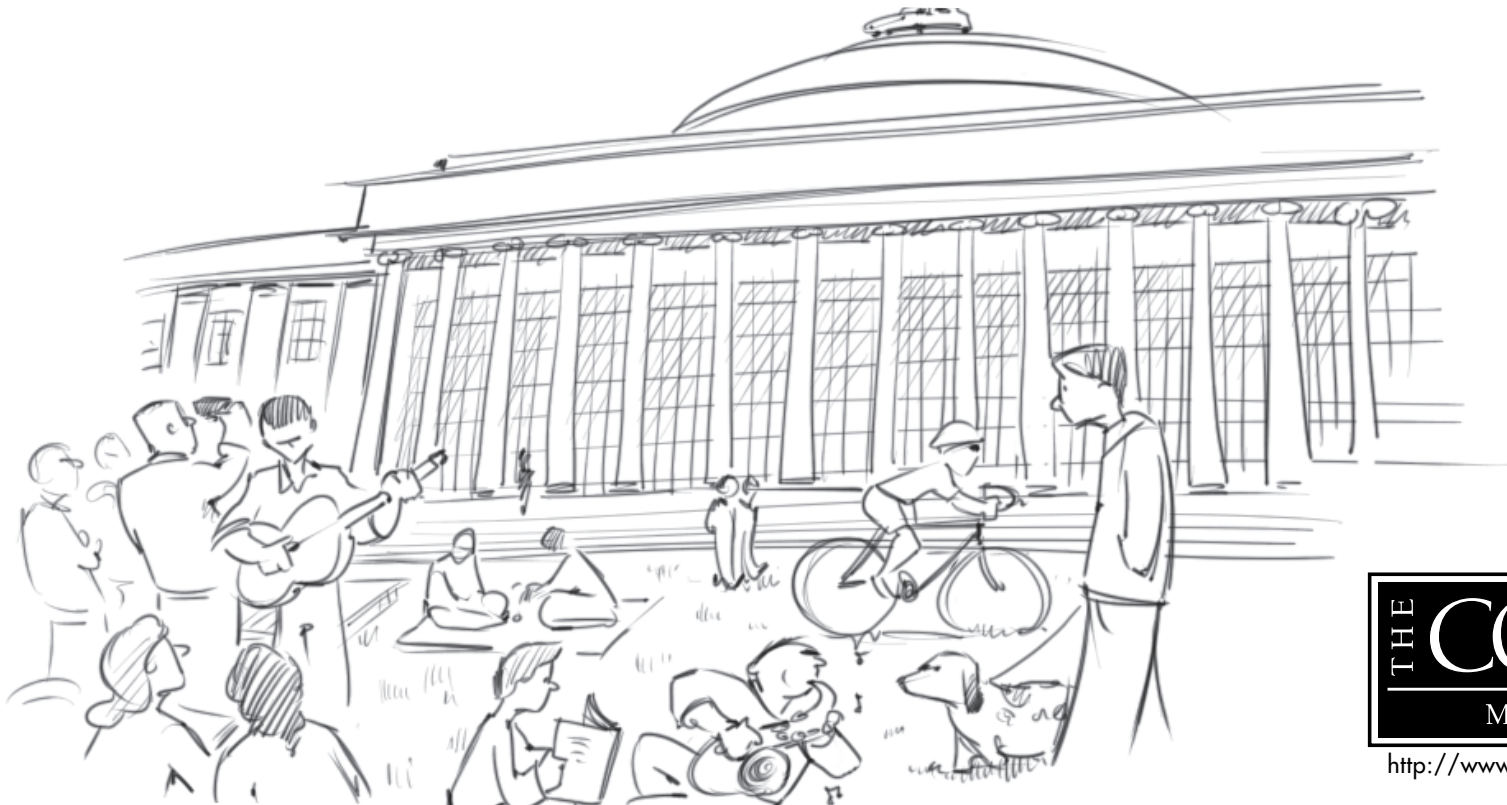
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6.002x officially kicks off MITx online experiment

Circuits and Electronics class will be open to the whole world, will grant certificates

6.002x, from Page 1

The class begins on March 5 and runs through June 8. Students are expected to spend about 10 hours per week on 6.002x. Enrollment will not be limited, though Agarwal declined to say how popular he expected the course to be in a conference call last Friday.

Agarwal also teaches the on-campus 6.002 course, which is already piloting 15 MIT students on 6.002x. Students in this “experimental” section will complete the entire course online — including lectures, labs, assignments, and exams — and they will receive full credit for 6.002 and a letter grade, according to an email from Terman sent to stu-

dents preregistered for 6.002.

A discussion forum will allow 6.002x students to ask questions of each other and course staff, though 6.002 students in the experimental section will also have the opportunity to meet with TAs in-person.

One of the keys to the online course are simulated laboratories. While on-campus 6.002 students work directly with circuit boards and components, 6.002x students will run experiments on Javascript-based simulated circuits in their browsers, says Agarwal.

6.002x students must agree to an “honor code,” which says that they will complete exams on their own and not “dishonestly improve my results, or improve or hurt those of others” (see sidebar). Certificates

of completion for 6.002x will mention that security was limited to an honor code in this iteration of the course.

6.002x students will run experiments on Javascript-based simulated circuits in their browsers.

“In the future, MITx will work towards more sophisticated forms of checking identity,” said Agarwal.

Faculty response

At a faculty meeting last month,

and in the January/February Faculty Newsletter (FNL), faculty response to MITx has generally, but not uniformly, been positive. Provost L. Rafael Reif, for instance, says he expects MITx to free up time for faculty to work one-on-one with students instead of lecturing, but the FNL’s editorial offered a counterpoint: “One senior faculty member speculated that going online, with a global component, will be 1,000 times more work than writing a book. It was not clear if he was using hyperbole.”

The editorial board — Nazli Choucri, Gordon M. Kaufman, Jonathan Alan King, and Patrick Henry Winston ’65 — also said that MITx has the potential to dramatically change education for the better, but faculty will need to more carefully differentiate an on-campus experience from online.

Also in the current FNL, Mechanical Engineering Professor Emeritus Woodie Flowers PhD ’73 wrote that MITx may be driven by misplaced motivations. “As was the case for OCW discussions, holding the for-profit world at bay seems to be one of the unwritten strategic goals of MITx,” he said. “One also hears whispers about getting ahead of other great universities.”

MITX HONOR CODE PLEDGE

By enrolling in an MITx course, I agree that I will:

- Complete all mid-terms and final exams with my own work and only my own work. I will not submit the work of any other person.
- Maintain only one user account and not let anyone else use my username and/or password.
- Not engage in any activity that would dishonestly improve my results, or improve or hurt the results of others.
- Not post answers to problems that are being used to assess student performance.

Unless otherwise indicated by the instructor of an MITx course, learners on MITx are encouraged to:

- Collaborate with others on the lecture videos, exercises, homework and labs.
- Discuss with others general concepts and materials in each course.
- Present ideas and written work to fellow MITx learners or others for comment or criticism.

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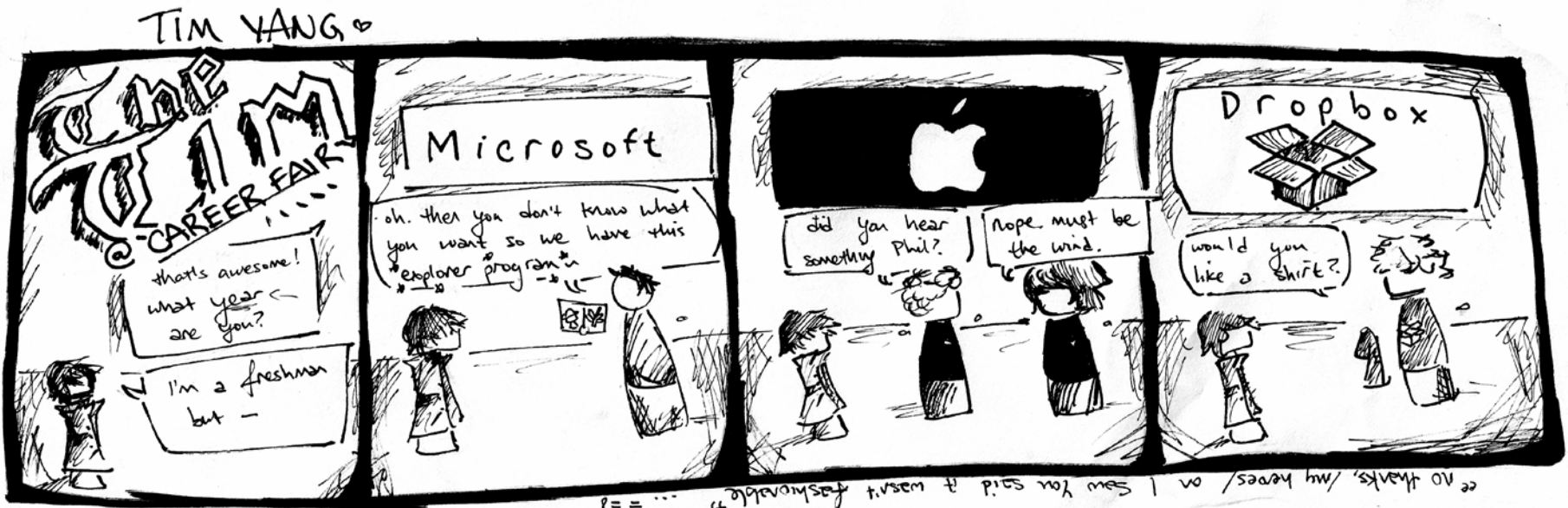
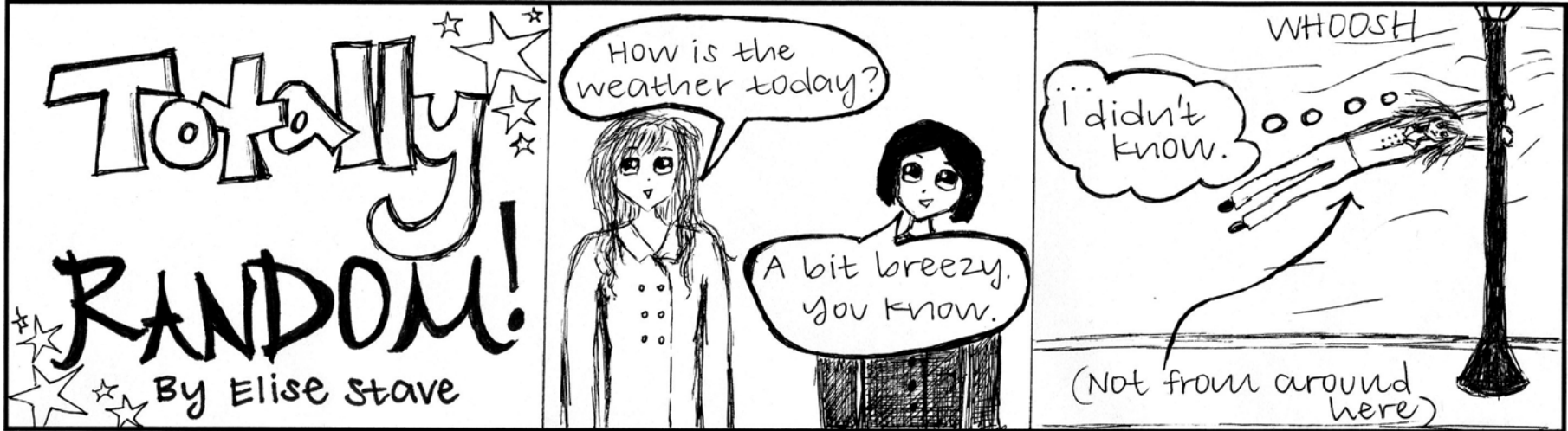
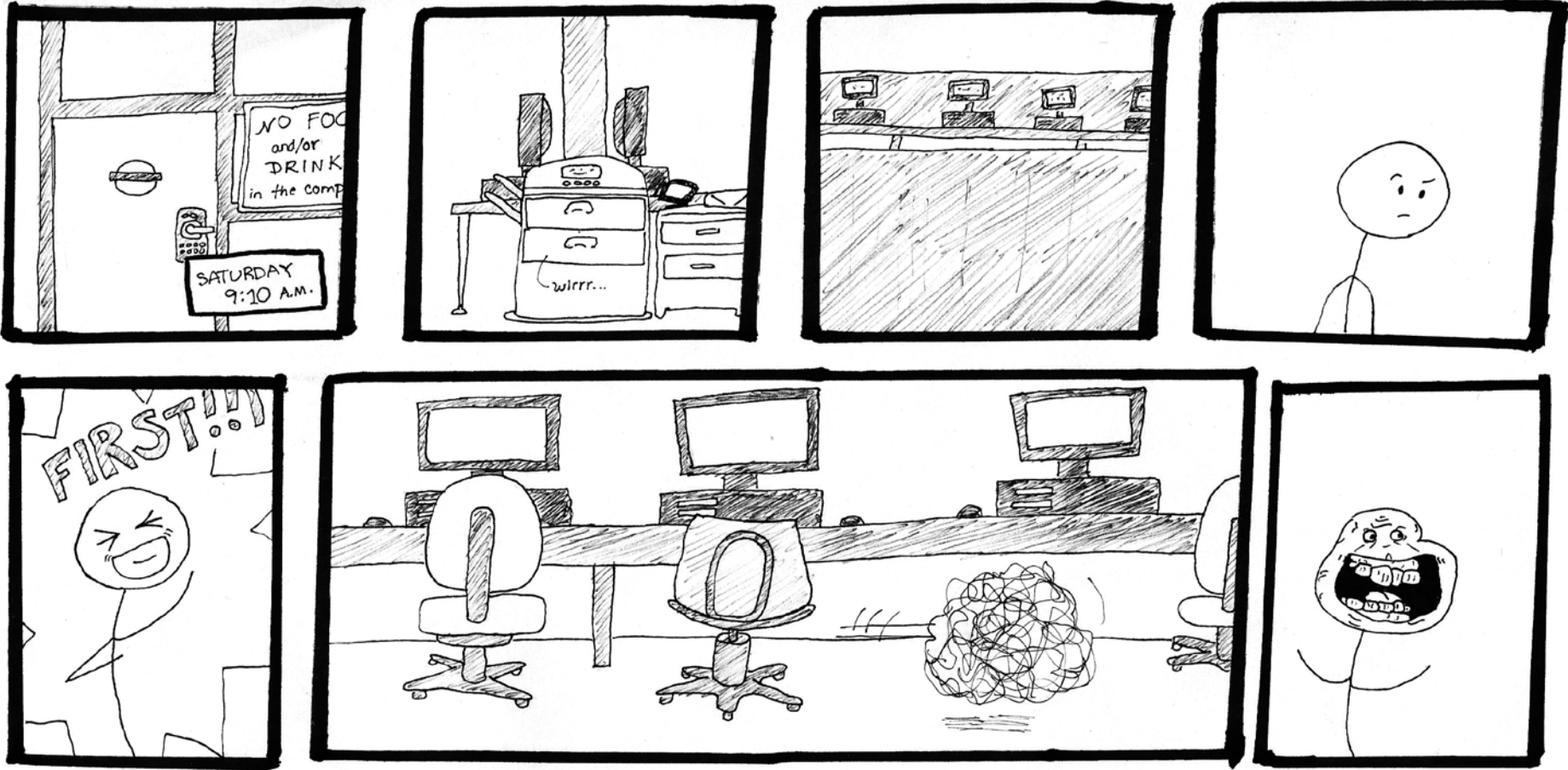
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Least Action Principle by Amanda Aparicio



Saturday Stumper By Lester Ruff

Solution, page 9

- ACROSS**

1 Put forth

8 Discarded

15 John Wayne film of 1970

16 New Zealand's region

17 Environmental removal

18 Office machine

19 Part of some medicine-delivery systems

20 Least rigid

22 Rose cousin

23 Further wrongdoing

25 He bought out the McDonald brothers

26 Little bit

28 RCAF/USAF joint venture

30 Give and take

32 Ended

33 O may stand for it

35 Some peeved pets

37 Bump in the road

39 Affiliations

40 It's picked up by the pound

44 Slow down

48 Get better

49 Hamlet's word of regret
- 51 Floodplain feature

52 Foe info

54 Hoo-ha

56 Hard stuff

57 Frat letter

58 Disappoints, and then some

61 NL team

62 Wood preservative

64 Basement with a bar, maybe

66 Giant of the Spanish Renaissance

67 To be filled shortly

68 Rainforests' opposites

69 Only state with two Ivy League schools
- DOWN**

1 Pizza topping

2 Source of some alarms

3 Nonsense

4 Lines like the London Overground

5 Vex

6 Novel medium

7 PBS program credits

8 Scientific calculator function

9 Short or false shows

10 Governmental centers

11 Select

12 Away for a while

13 Diamond defenseman

14 Pen holders

21 Pen holdings

24 Suburban sign subject

27 Cell-phone accessory

29 Repudiate

31 Small set

34 Another word for love

36 Rotatory device

38 Course teachers

40 Sent

41 Stretchable

42 Network concern

43 Festive

45 Good source of potassium

46 Get better

47 Peace Prize sharer of '93

50 Shade of pink

53 By and by

55 Two-dimensional

1	2	3	4	5	6	7		8	9	10	11	12	13	14
15								16						
17								18						
19				20			21					22		
23			24		25					26	27			
28				29		30			31		32			
33					34		35			36				
			37			38		39						
40	41	42					43		44			45	46	47
48					49			50		51				
52				53		54			55		56			
57				58	59					60		61		
62			63					64			65			
66								67						
68								69						

- 59 Something shaken on

60 Wet blanket
- 63 Homophone for heir

65 Call out



S M B C
SATURDAY MORNING BREAKFAST CEREAL
BY ZACH WEINER
[2516]



Sudoku

Solution, page 5

3	5	2						
1	7		2			4		
	6		3		5			
	3			4				1
	4	5				9	7	
8				5			4	
			5		6		8	
		6			1		9	4
						6	5	7

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

Solution, page 5

8x		22+			
30x		12x		5+	
	72x		20x		
3		5x	20x		
1			24x		5-
7+		3-			

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

FRESH START

Fall in love with fitness at MIT

Keeping a journal can motivate you to exercise and eat healthily

By Allison Hamilos

Everyone at MIT has a unique fitness story. Some of us are varsity athletes or gym rats, who somehow manage to pack 12 to 20 hours a week of sports into our already bursting schedules. Others gave up on exercise long ago due to the demands of classes and research. Some of us lie somewhere in between: former athletes who've fallen out of condition, those who want to work out, but don't know how or don't seem to be very good at it. Some of us love running; some of us hate it. Some of us are too self-conscious to try. One thing each of us has in common is a desire to be healthier. Even top athletes aspire to greater heights. Unfortunately, whether you're a novice or a pro, at a place like MIT, sometimes these goals can seem impossible to achieve.

I've experienced all of these phases of physical activity at MIT, from my seasons as a varsity lacrosse player obsessed with health and athletic performance to hectic semesters where to GTL (Gym-Tool-Laboratory) just seemed impossible. But now that I'm a senior, I'm eager to share with you some of the ways I've found to live well at TFP, even in the midst of the worst schedules imaginable!

That's where Fresh Start comes in. Every week or two, expect to see tips for finding time to exercise, cooking up healthy snacks, and otherwise improving your quality of life. These articles will be a mix of how-to's, news in the health/fitness scene, and Yelp-style reviews of different wellness ideas that I've tried out and found effective. The goal is to help make our campus a place where our wellness is a priority again — something achievable for everyone even if you think you hate to exercise!

As a warm up to this fitness journey we're about to embark on, I thought we might start off with some tips for organization. Even with a crazy schedule, it is pos-

sible to find time to exercise and eat well, especially at the beginning of the semester. The trick is to make a conscious effort to plan ahead.

If you're like me, it can be really easy to think as you're walking home from class, "ah, well, I'm tired today. I'll work out tomorrow for sure." Except you'll say the same thing the next day ... and the next. Without something to force you to work out, how can you find motivation?

A good way is to get a personal trainer or join a PE class that you're obliged to attend. But, failing that, the best way I've found to keep myself on track on my own is keeping a "Workout Book." This is an agenda where, for each day, you write out in advance exactly what you'll do for each hour of the next day. In the schedule, you can include time for lunch, napping, watching TV, whatever, as long as you plan out all the time you need to work and to go to the gym. I usually give myself an optimistic day where I'm finished with everything by 4 or 5 p.m. and keep the rest of the night free, which keeps me safe in case things take longer than planned. By giving myself a set hour sometime in the morning or early afternoon to go to the gym, I feel greater motivation to exercise during the time allotted so that I can get to the other items on my list.

But that's not all that goes in the book. It doubles as a planner and tracker of my fitness goals. Each day, I also record everything that I eat and exactly what I did in my workout. For instance, did I devour an entire bag of peanut-butter pretzels today? I might want to eat better the next day, then. Or did I lift today? Which exercises, and how much weight for how many reps? The food tracking can help you stay on track with eating well and help you optimize your eating. The exercise tracking can give you a sense of progress and achievement as you progress to higher weights/faster times/longer distances, whatever your goal may be. And

goal-setting and achieving can be really, really satisfying for hard workers like us!

I usually fill out the book in the evening just before I go to sleep. This takes about five minutes and gives me time to write in my day's progress and also plan my next day's schedule.

Here's an example of my book:

<u>Monday</u>		<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>	<u>Saturday</u>	<u>Sunday</u>
8 <u>Morning</u>	work out: upper body day • 2 sets: benchpress + rows x 8 reps. (25 lbs ea hand) • 2 sets bicep curl / tricep kickback x 8 reps, 15 lbs ea • elliptical 5 min, rest 6 • core circuit	9 Package 10 ⊥ 11 5.08 Lec. 12 lunch/meet 1 ⊥ 2 gym	7:00 pset 9/10 4:00 ⊥ 5:00 reading/ 7:00 dinner 8:00 ⊥ 9:00 visit + havee 10:00 11:00	9 <u>Morning</u>	rest day	9 7.06 Lec 10 ⊥ 11 CMS class 12 ⊥ / lunch 1 5.38 2 1	7:00 ⊥ 4:00 Pset 10 5:00 ⊥ 6:00 WORKER ENGINEERING TRAINING 7:00 Dinner w/ Edwardo + Grem 8:00 9:00 10:00 11:00
10 <u>Morning</u>	banana/adwallabar trail mix milk banana/adwallabar chipotle bowl grapes/raspberries/blackberries blueberries/strawberries	chocolate softened hummus, bread (a lot)	5 min elliptical, resist 6 lunch 2 sets: split squats, 15 lbs ea hand, 8 reps core circuit	11 5.08 Lec. 12 study ear 1 7.06 quiz 2 7.06 quiz	3:00 Gym 4:00 Pset 5:00 ⊥ 6:00 ⊥ 7:00 Dinner w/ friends 8:00 ⊥ 10:00 11:00	10 <u>Morning</u>	banana/adwallabar trail mix baked lamb green beans grape leaves - stuffed bread - 1 slice, 1 egg yolk

ALLISON HAMILOS

Your workout book doesn't have to be pretty, or even on an agenda from 2012. It's the thought that counts!

Next time: Planning your workouts!

Since this column is all about improving our wellness on campus together, I'd love to hear about your successes! What have you been doing that's working for you? Do you

strength trainers, fitness literature, etc., but you should always check with your doctor before attempting a new fitness or nutritional regimen. So be healthy and train healthy!

DEAR CHACHA

Valentine's Day isn't the only day for love

For singles and couples alike, the day is what you make of it.

By Jacqueline "Chacha" Durazo

Ciao Amore! Today is Valentine's Day, the most [enter your adoring or snide comment here] day of the year. Maybe you've already heard those public serenades isolating someone's sweetheart in an awkward, yet adorable, way. Or perhaps you've avoided such encounters like the plague? Either way, it is Valentine's Day and here are some things one can do. But first, humor me and read about my "beef" with this holiday.

I view Valentine's Day like I do Mother's and Father's Day — it shouldn't be necessary. Now, before you throw a hissy fit or rejoice about what I just said, hear me out. The point of Mother's/Father's Day is to take the time out of your oh-so-busy schedules (note sarcasm) and reflect on the easily forgotten truth that, regardless of how well your biological parents cared for you, you still have some parental figure who has done a lot to better your life. Often this sentiment is expressed in the form of a card, with a couple words, and your chicken track signature. Cool. The thing is, it shouldn't be just one day of the year that you remember them.

Likewise, it shouldn't be just one day of the year that you go out of your way for your significant other. I think the sweet and lovey-dovey sentiment is cute but you shouldn't express it on only one day of the year. Write love letters to your significant other every time you think of something you love about them. Spend an evening doing nothing but eating dinner and talking ... just because! When you're in a healthy relationship, treating each other lovingly on a regular basis, Valentine's Day is no longer really necessary. However, if you aren't in a relationship where love is commonly expressed, speaking from experience, you'll find yourself almost needing that rose or card to convince you that the other person actually cares for you. Unfortunately, that's not a healthy situation to be in, and you might want to re-evaluate your relationship priorities. You want your counterpart to want to do things with and for you, not feel obligated because of some pressure from Hallmark and the obscene amount of red and pink in the Dollar Store these days. Yes, I did just say "you want x to want to do

y." You can roll your eyes, but trust me, there's a definite difference between someone doing something because they want to and because they feel they should, and this isn't just romantically applicable.

All that said, it's a totally different experience for a single person. I really don't like how there's a mentality that being single is something that needs to be changed. Suddenly, if you're over 20 every grandmother acts like the mom in the movie *My Big Fat Greek Wedding* and is eager to introduce you to her nice, attractive, and single grandchild. While it's comical in a movie, it's often annoying in real-life. Goodness, you're single, not sick!

I don't know about you, but I hated how in high school all the young couples would come out of nowhere. It's never fun to see people playing tonsil hockey in the quad, especially on that romantic day.

Maybe it was the red that made them stand out? I think even teachers had an extra skip in their step. I swear, suddenly it seemed like everyone and their best friend had someone special... everyone, that is, except for me. Sure, I had other single friends and had my mom who always celebrated the day by surprising me with a little gift. I even got an adorable card from my brother one year (such good blackmail). But that's very different from getting something special from a significant other. I came to change what I thought of Valentine's Day though. Instead of it being just for the person you're in a relationship with, I made it a point to express my love for all my friends. And you know what? It became something fun.

I actively sought to make Valentine's Day enjoyable for my single friends and me by making goodie bags of candies and little love notes. It's amazing what a couple bucks at the dollar store and some crayons and colored paper can do, not to mention a little imagination. I even learned to make pop-up cards! They loved getting something special and I loved making them feel special. I'd make a point to get all dolled up with some girlfriends (mom included of course) and go out to lunch and window shop on the weekend closest to the day. So while couples had their day, I had mine with the ones I cared for dearly.

Here are some suggestions I have for the day. For the star-crossed lovers:

- 1) Please, please, PLEASE refrain from acting like you're in high school and save the inspecting of each other's throats for your dorm room.
- 2) Make it a point to sit down and express how much the other person means to you, perhaps in a letter? I know I personally cherish love letters and notes because I can save them and re-read them another day.
- 3) Do something fun! Make it an experience to remember. Neither of you cook? Try making your favorite dish! Be sure to do so while take-out is still available at your favorite restaurant, just in case.
- 4) Perhaps most importantly, make an effort to be romantic more than just once a year. I'm sure your sweetheart would love hearing all you have to say more often. I'm not saying to go spend \$100 on a dinner every weekend, but taking the time to show your affection is something extremely precious.
- 5) I know that society places a lot of expectations on Valentine's Day, but don't feel bad if it's not like the movies — the point is to express your love.

For the peeps flying solo:

- 1) Spend some time with your other single friends. The worst thing, according to my friend Charlotte, is to sit alone in your room and dwell on the fact that you're single. For goodness sake, it's totally fine to be single!
- 2) Make it a point to play a board game if you have a group. Or pop some popcorn and watch a movie. Paint your nails if that's what you're into! Think about including froyo, because I know I can't be anything but happy when I'm eating that delicious gift to mankind! There are tons of group activities that are super fun and super cheap.
- 3) If you're artistically inclined, try out some origami hearts or pop-up cards for friends. Little goodie bags can be cheap and small — it's the thought that will make them smile!

Feel free to send me any requests:
dearchacha@tech.mit.edu. Thanks!

Fondly,
Chacha

By Greg McKeever
DAPER STAFF

Bender's 3 with 16:30 to play gave MIT a 33-19 lead, its largest of the afternoon. Clark slowly chipped away at the margin, getting within four points, at 37-33,

MIT will return to Worcester for its final game of the regular season on Wednesday, Feb. 15, facing WPI at 7:00 p.m.

the clock had stopped. Alexxis R. Isaac '15 made two free throws at the very end of the game to complete this comeback victory. Other notable players from the game include freshman Mari R. Kordell, who made 19 points to become the high scorer for the game, and Anna L. Merrifield '13 who had seven assists. The Engineers will play Wheaton on Wednesday to hopefully continue their NEWMAC winning streak.

—Sarah Weir, Sports Editor

By Greg McKeever

DAPER STAFF

Marx also joined David H. Way '13, Justin L. Bull-ock '14, and Chadd T. Kiggins '15 in the distance med-ley relay, placing fifth overall with a time of 9:55.71. Their season-best time ranks third in the country this season.

Kyle J. Hannon '13 set a new personal best in the mile, finishing in 4:09.79, the second-fastest time in Institute history and the fourth in Division III this year.

Marx completed his busy afternoon in the 800-meter, running a season-best of 1:52.86, which ranks him fifth on the NCAA performance list. Kiggins reached

a new personal best in the event, finishing in 1:54.57, which would be good for 17th in the country.

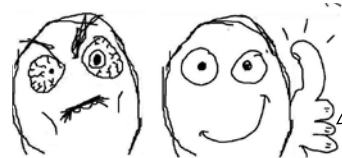
Gager and Way had personal best times at 500 meters. Gager was 15th overall at 1:05.99 while Way was not far behind, coming through in 1:06.21. Bullock, 2:28.20, and senior Stephen R. Serene, 2:30.09, also recorded personal bests in the 1000-meter.

Joshua D. Duncavage '13 and Singer-Clark each ran well in the 200-meter, with times of 22.60 seconds and 23.04 seconds, respectively. Singer-Clark came back in the 400, recording a season best at 50.08 seconds.

Senior Nathan E. Peterson placed second in the pole vault, clearing 15-3 feet. Benjamin J. Schreck '15 cleared 14-1 1/4 feet as well.

Back at home, some of the highlights included Chinedum K. Umachi '12 winning the weight throw with a 63-7-foot effort, a season-best and good for fourth-place in the NCAA. Matthew D. Falk '12 led a group of three Engineers to finish in the top five of the high jump. Falk cleared 6-3 1/4 feet to finish second. John B. Thomas '15 was third and Sheldon N. Trotman '15 placed fifth. Trotman also took fourth-place in the long jump at 19 3/4 feet.

The Engineers will look to win their third straight regional title at next weekend's New England Division III championship at Springfield College. Tech passed Williams College in the final event last year to capture the team championship.



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join@tech.mit.edu



Michael Kearns
University of Pennsylvania

2011-2012 Dertouzos

Date: Thursday, February 16, 2012
Venue: MIT Stata Center, Building 32-123/Kirsch Auditorium
Time: 4:00PM (refreshments at 3:45PM)

Experiments in Social Computation

Abstract: What do the theory of computation, economics and related fields have to say about the emerging phenomena of crowdsourcing and social computing? Most successful applications of crowdsourcing to date have been on problems we might consider "embarrassingly parallelizable" from a computational perspective. But the power of the social computation approach is already evident, and the road cleared for applying it to more challenging problems.

In part towards this goal, for a number of years we have been conducting controlled human-subject experiments in distributed social computation in networks with only limited and local communication. These experiments cast a number of traditional computational problems - including graph coloring, consensus, independent set, market equilibria, biased voting and network formation - as games of strategic interaction in which subjects have financial incentives to collectively "compute" global solutions. I will overview and summarize the many behavioral findings from this line of experimentation, and draw broad comparisons to some of the predictions made by the theory of computation and microeconomics.

Biography: Michael Kearns is a professor of Computer and Information Science at the University of Pennsylvania, where he is the director of the new Penn program in Market and Social Systems Engineering (www.mkse.upenn.edu). His research interests include topics in machine learning, algorithmic game theory, social networks, computational finance and artificial intelligence. More information is available at www.cis.upenn.edu/~mkearns.

Host: Anant Agarwal, CSAIL

For more information: www.csail.mit.edu or 617.253.0145